

ABSTRACT

Metallic solutions at room temperature used a laser point source target droplets. Using the target metallic solutions results in damage free use to surrounding optical components since no debris are formed. The metallic solutions can produce plasma emissions in the X-rays, XUV, and EUV(extreme ultra violet) spectral ranges of approximately 11.7nm and 13nm. The metallic solutions can include molecular liquids or mixtures of elemental and molecular liquids, such as metallic chloride solutions, metallic bromide solutions, metallic sulphate solutions, metallic nitrate solutions, and organo-metallic solutions. The metallic solutions do not need to be heated since they are in a solution form at room temperatures.